

SEQUENCE LISTING

<110> KARPUSAS, MIHAIL N.
SINGH, JUSWINDER
THOMAS, DAVID W.

<120> CRYSTALS OF FRAGMENTS OF CD40 LIGAND AND THEIR USE

<130> BIOGEN B189 US

<140> 09/180,209

<141> 1998-11-04

<150> 60/000,448

<151> 1995-06-22

<150> PCT/US96/10664

<151> 1996-06-21

<160> 3

<170> PatentIn Ver. 2.1

<210> 1

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1

Arg	Thr	Pro	Ser	Asp	Lys	Pro	Val	Ala	His	Val	Val	Ala	Asn	Pro	Gln
1				5					10					15	

Ala	Glu	Gly	Gln	Leu	Gln	Trp	Leu	Asn	Arg	Arg	Ala	Asn	Ala	Leu	Leu
	20						25						30		

Ala	Asn	Gly	Val	Glu	Leu	Arg	Asp	Asn	Gln	Leu	Val	Val	Pro	Ser	Glu
	35						40					45			

Gly	Leu	Tyr	Leu	Ile	Tyr	Ser	Gln	Val	Leu	Phe	Lys	Gly	Gln	Gly	Cys
50					55						60				

Pro	Ser	Thr	His	Val	Leu	Leu	Thr	His	Thr	Ile	Ser	Arg	Ile	Ala	Val
65					70					75				80	

Ser	Tyr	Gln	Thr	Lys	Val	Asn	Leu	Leu	Ser	Ala	Ile	Lys	Ser	Pro	Cys
				85					90					95	

Gln	Arg	Glu	Thr	Pro	Glu	Gly	Ala	Glu	Ala	Lys	Pro	Trp	Tyr	Glu	Pro
		100						105					110		

Ile	Tyr	Leu	Gly	Gly	Val	Phe	Gln	Leu	Glu	Lys	Gly	Asp	Arg	Leu	Ser
		115					120					125			

Ala	Glu	Ile	Asn	Arg	Pro	Asp	Tyr	Leu	Leu	Phe	Ala	Glu	Ser	Gly	Gln
	130					135					140				

Val	Tyr	Phe	Gly	Ile	Ile	Ala	Leu
145				150			





<210> 2
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 2
 Thr Leu Lys Pro Ala Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn
 1 5 10 15
 Ser Leu Leu Trp Arg Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly
 20 25 30
 Phe Ser Leu Ser Asn Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr
 35 40 45
 Phe Val Tyr Ser Gln Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys
 50 55 60
 Ala Thr Ser Ser Pro Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser
 65 70 75 80
 Ser Gln Tyr Pro Phe His Val Pro Leu Leu Ser Ser Gln Lys Met Val
 85 90 95
 Tyr Pro Gly Leu Gln Glu Pro Trp Leu His Ser Met Tyr His Gly Ala
 100 105 110
 Ala Phe Gln Leu Thr Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly
 115 120 125
 Ile Pro His Leu Val Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe
 130 135 140
 Ala Leu
 145

<210> 3
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 3
 Gly Asp Gln Asn Pro Gln Ile Ala Ala His Val Ile Ser Glu Ala Ser
 1 5 10 15
 Ser Lys Thr Thr Ser Val Leu Gln Trp Ala Glu Lys Gly Tyr Tyr Thr
 20 25 30
 Met Ser Asn Asn Leu Val Thr Leu Glu Asn Gly Lys Gln Leu Thr Val
 35 40 45
 Lys Arg Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr Phe Cys Ser
 50 55 60

Asn Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile Ala Ser Leu Cys Leu
 65 70 75 80

Lys Ser Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala Ala Asn Thr
 85 90 95

His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser Ile His Leu Gly Gly
 100 105 110

Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe Val Asn Val Thr Asp
 115 120 125

Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser Phe Gly Leu Leu
 130 135 140

Lys Leu
 145

